

FIG. 1

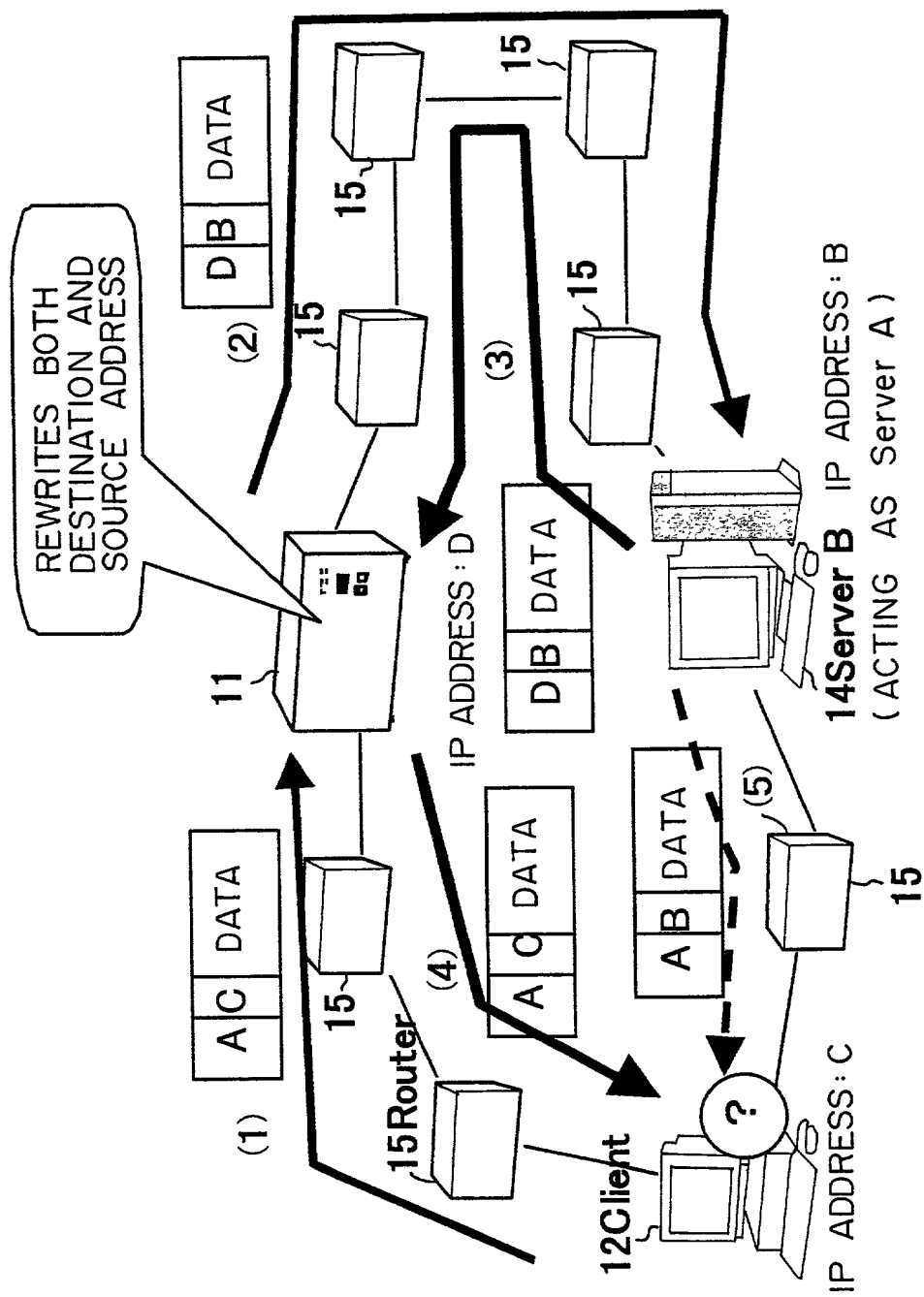
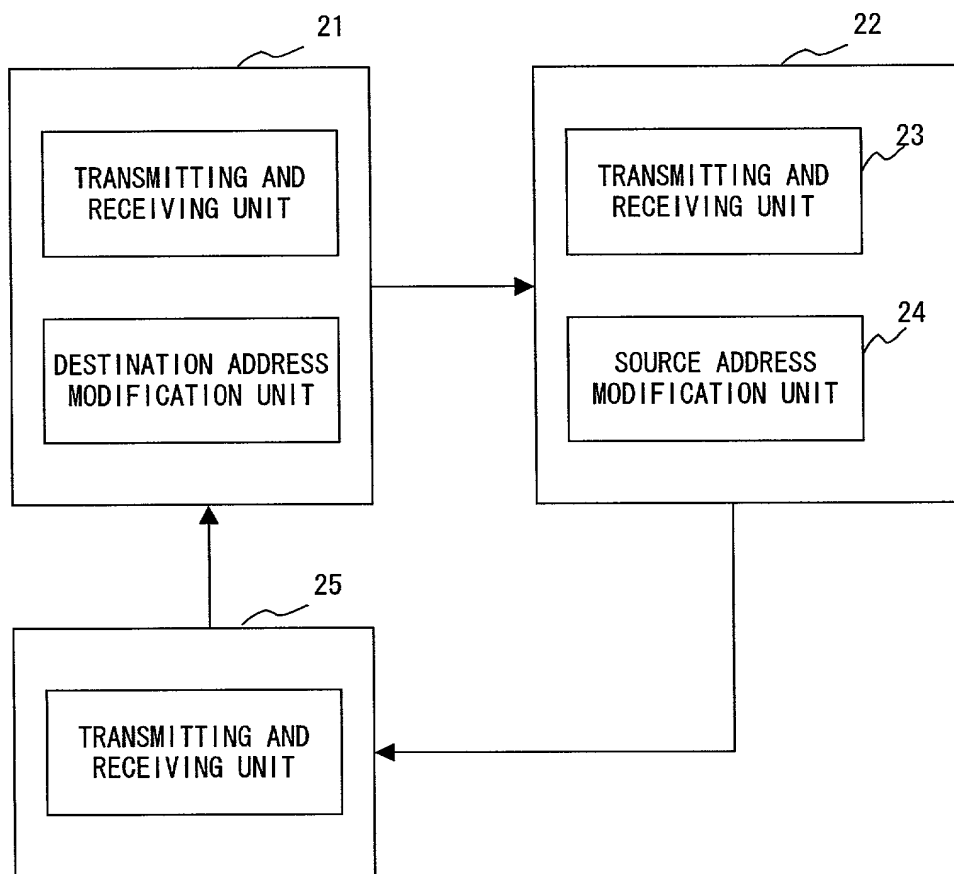
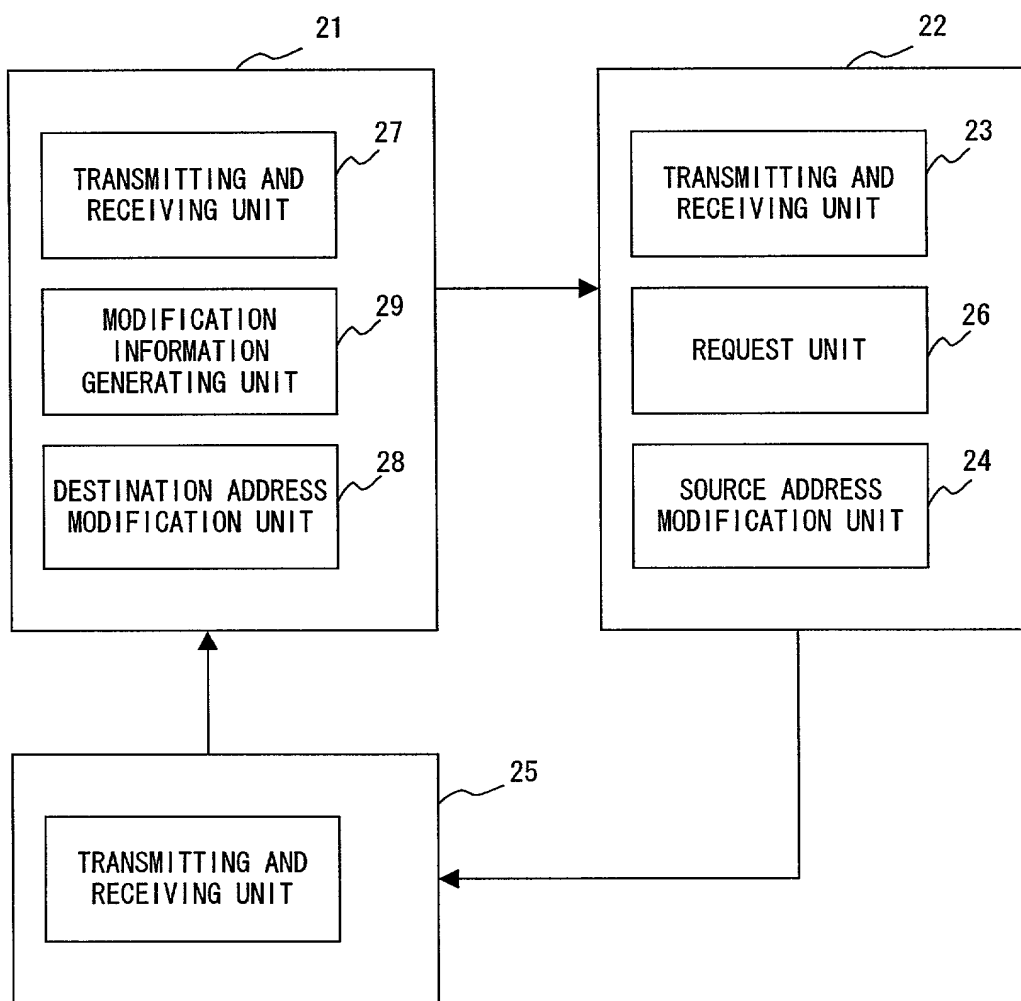


FIG. 2



F I G. 3



F I G . 4

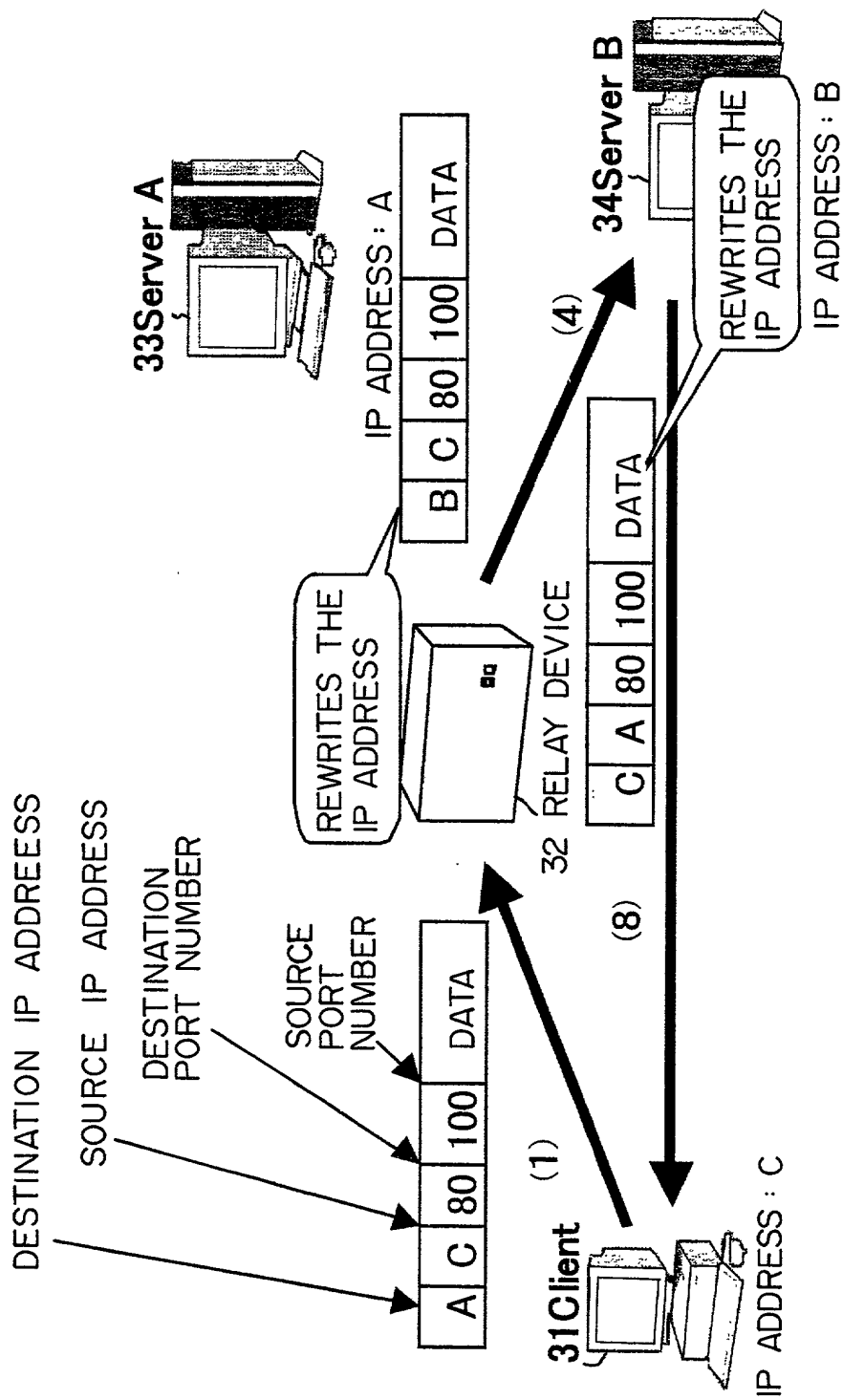


FIG. 5

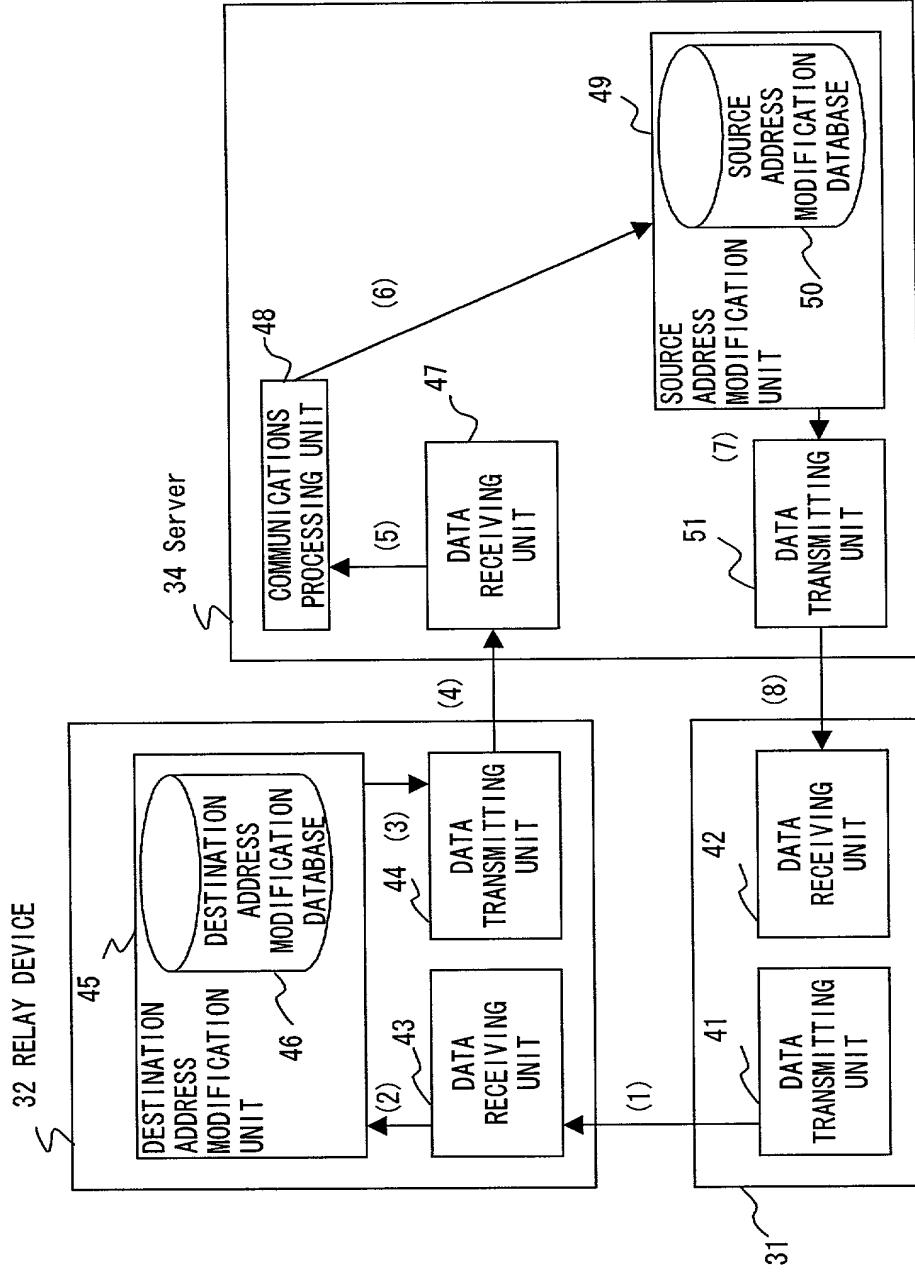


FIG. 6

DESTINATION ADDRESS
MODIFICATION DATABASE 46

	DESTINATION ADDRESS BEFORE MODIFICATION	DESTINATION ADDRESS AFTER MODIFICATION
IP ADDRESS	A	B

F I G. 7 A

SOURCE ADDRESS MODIFICATION
DATABASE 50

	SOURCE ADDRESS BEFORE MODIFICATION	SOURCE ADDRESS AFTER MODIFICATION
IP ADDRESS	B	A

F I G. 7 B

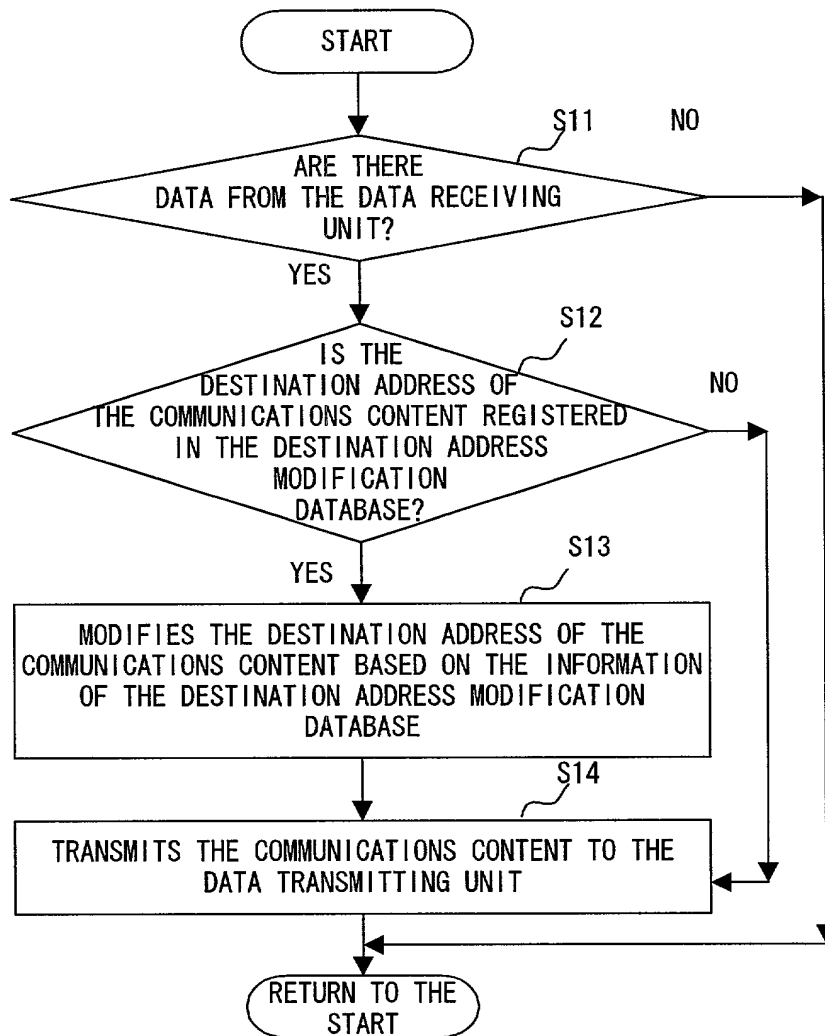


FIG. 8

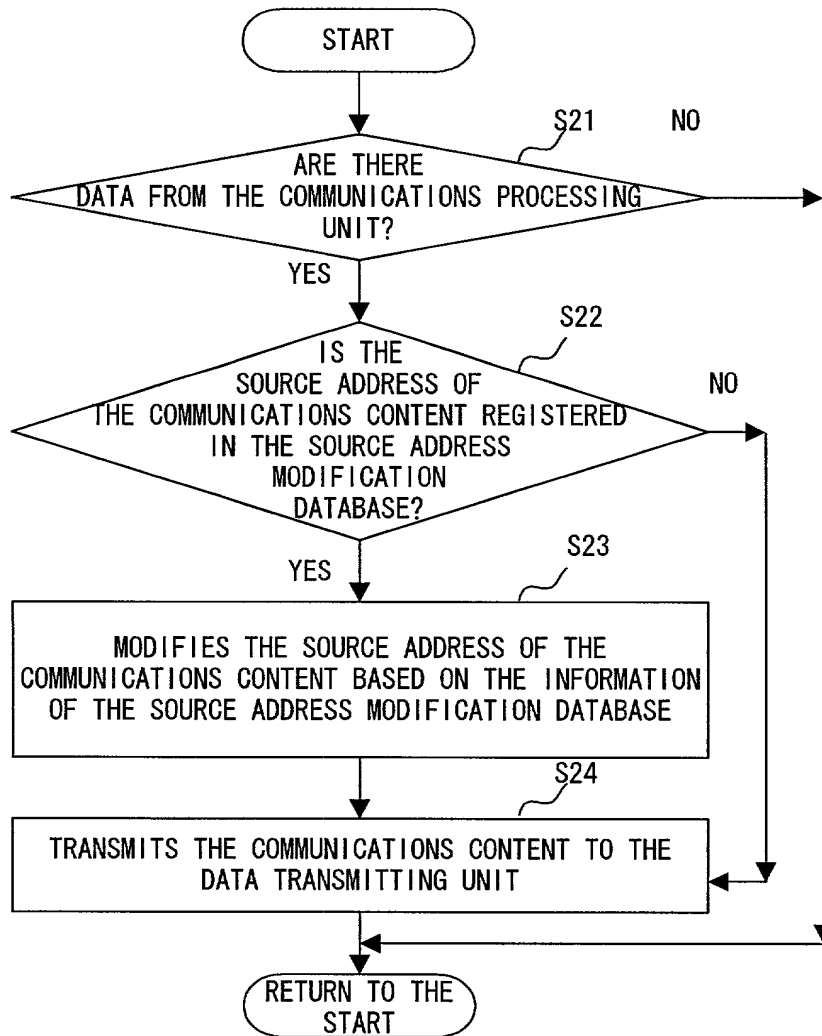


FIG. 9

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
A	C	80	100	ANYTHING

FIG. 10A

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	C	80	100	ANYTHING

FIG. 10B

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	B	100	80	ANYTHING

FIG. 10C

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	A	100	80	ANYTHING

FIG. 10D

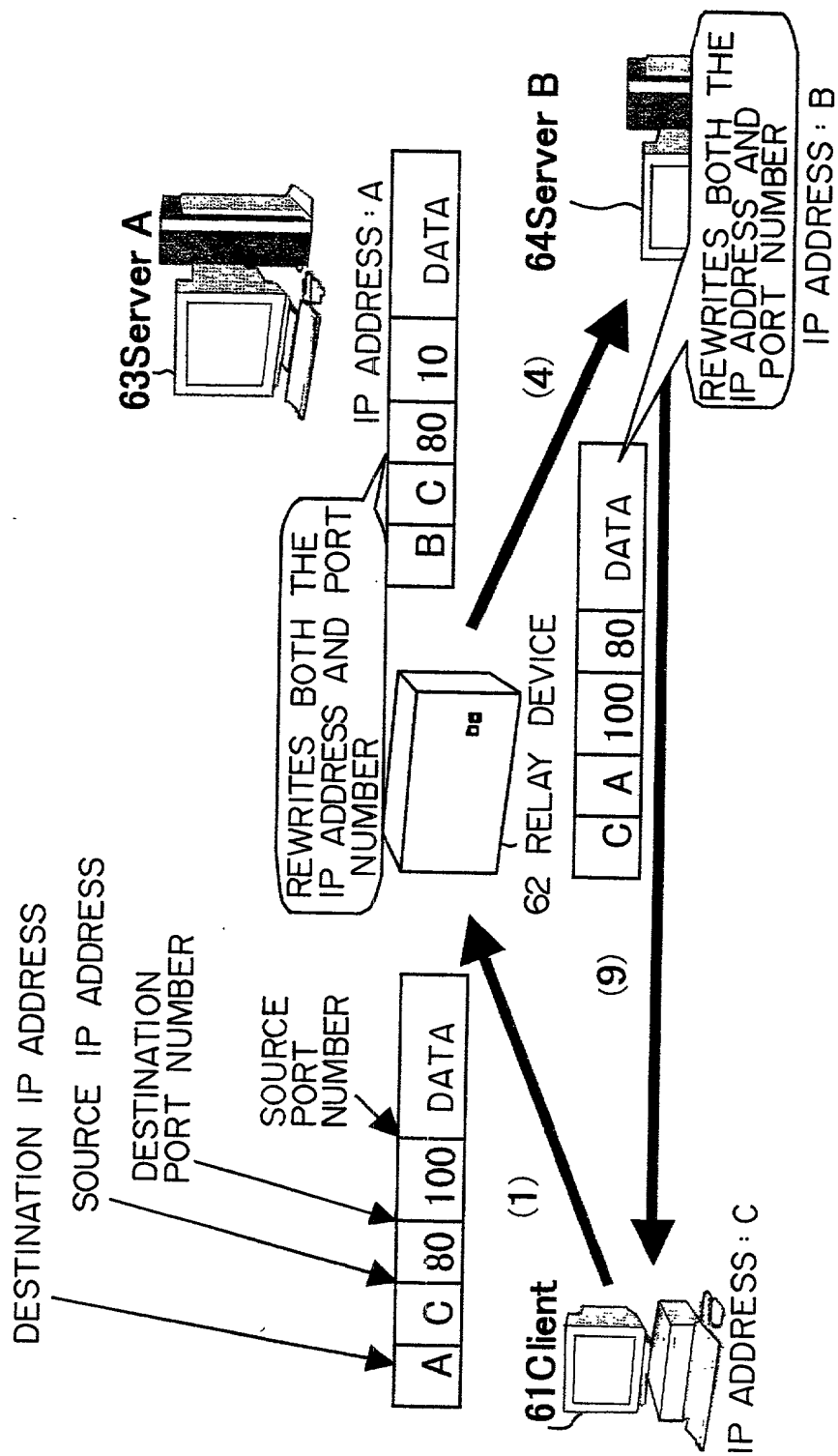


FIG. 11

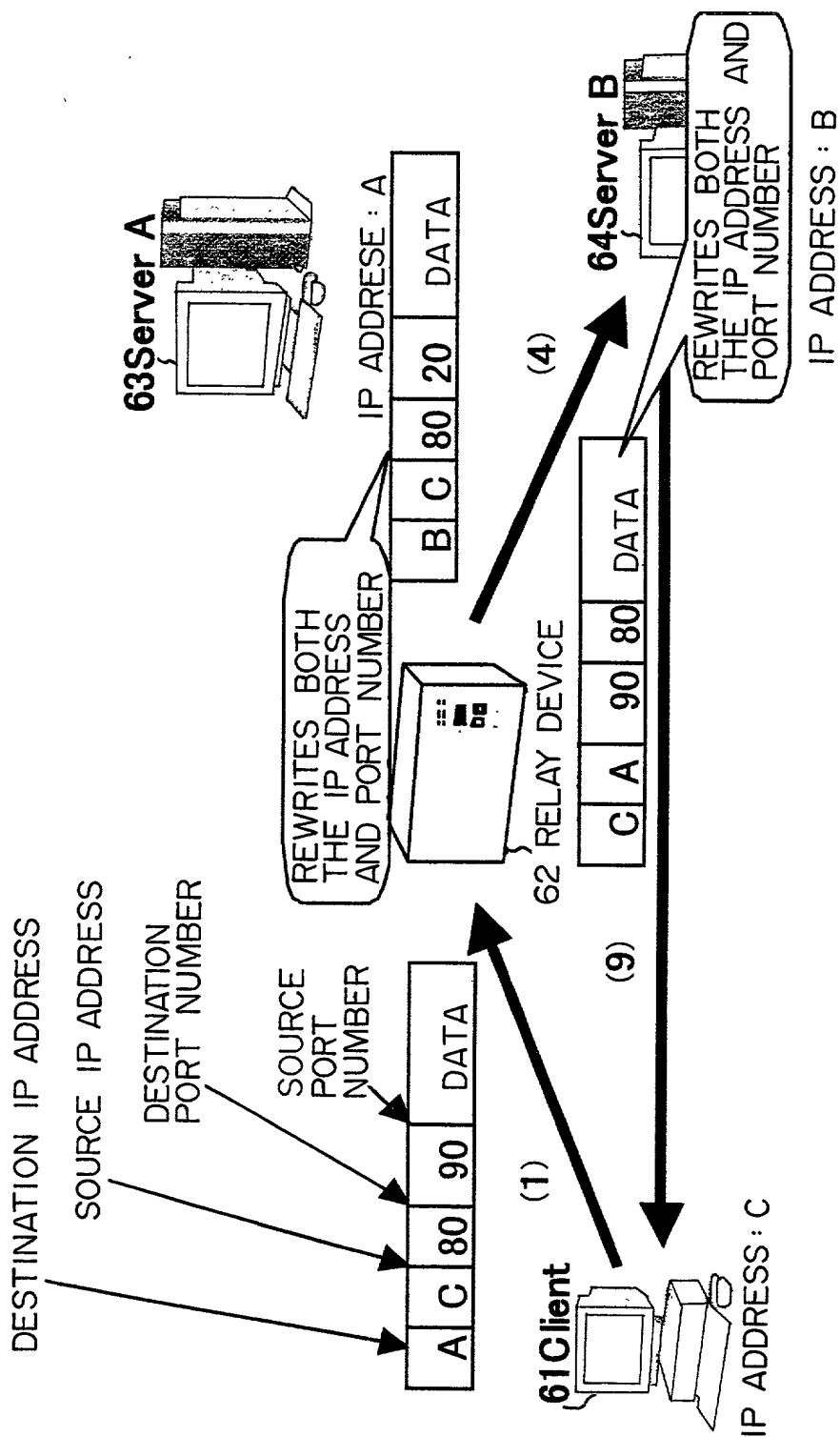


FIG. 12

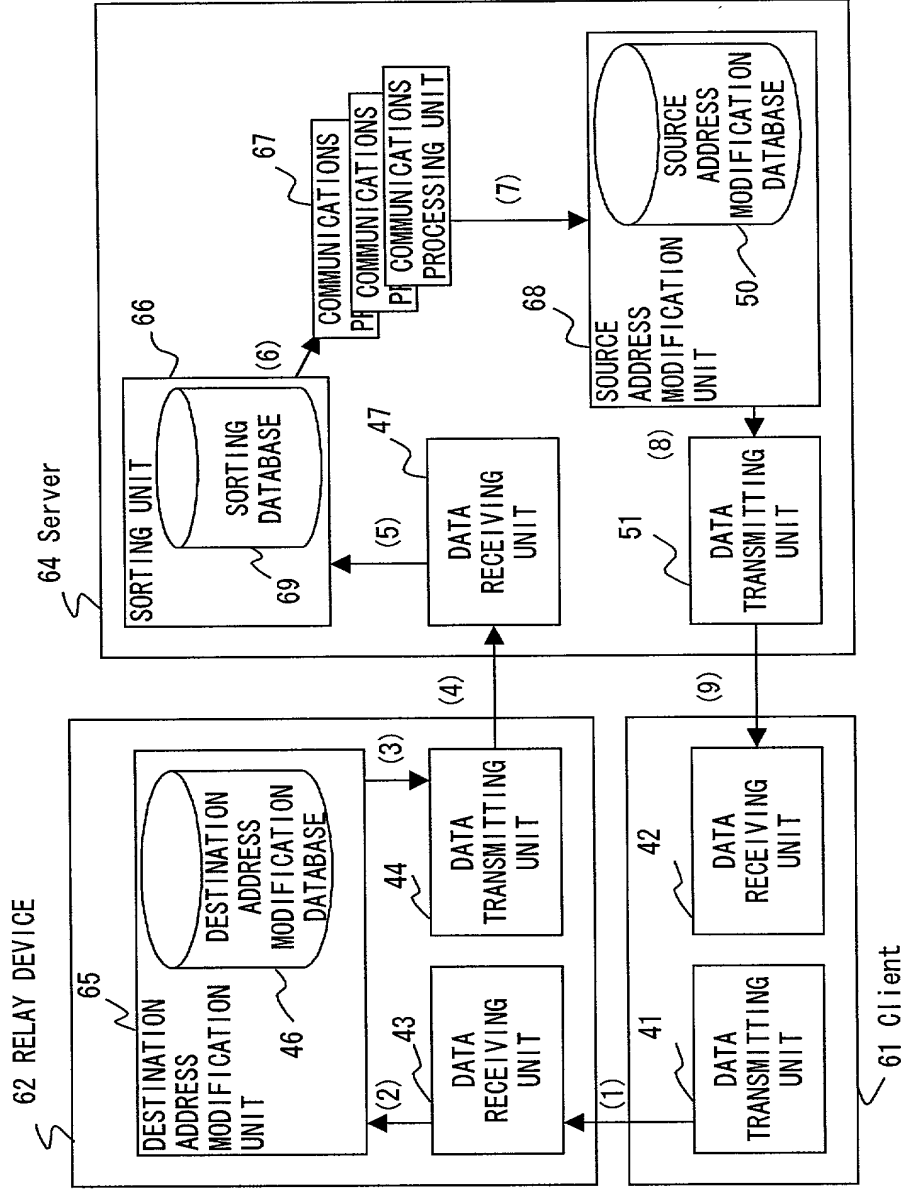


FIG. 13

DESTINATION ADDRESS
MODIFICATION DATABASE 46

	DESTINATION ADDRESS BEFORE MODIFICATION	DESTINATION ADDRESS AFTER MODIFICATION
IP ADDRESS	A	B
SOURCE PORT NUMBER	100	10
DESTINATION PORT NUMBER	90	20

F I G. 1 4 A

SOURCE ADDRESS
MODIFICATION DATABASE 50

	SOURCE ADDRESS BEFORE MODIFICATION	SOURCE ADDRESS AFTER MODIFICATION
IP ADDRESS	B	A
DESTINATION PORT NUMBER	10	100
SOURCE PORT NUMBER	20	90

F I G. 1 4 B

SORTING DATABASE

SOURCE PORT NUMBER	COMMUNICATIONS PROCESS INTERNAL PORT NUMBER
10	1000
20	2000

F I G. 1 4 C

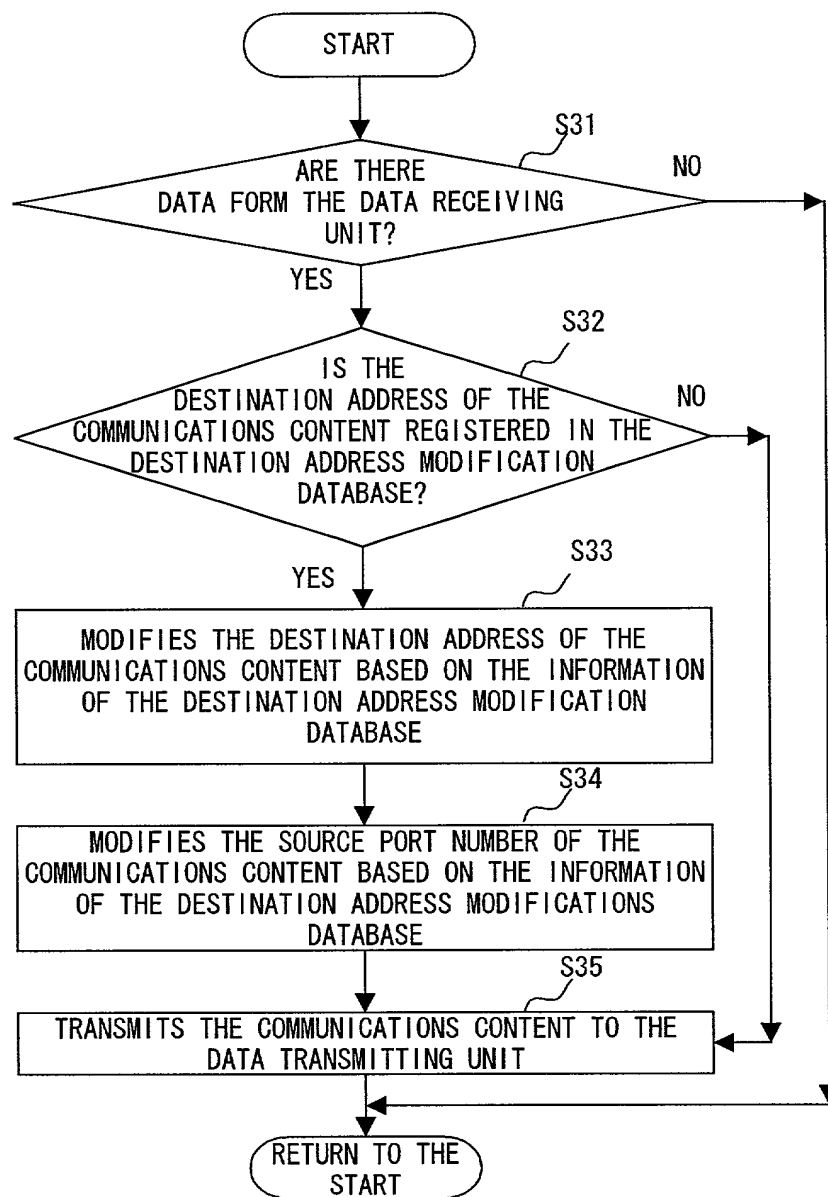


FIG. 15

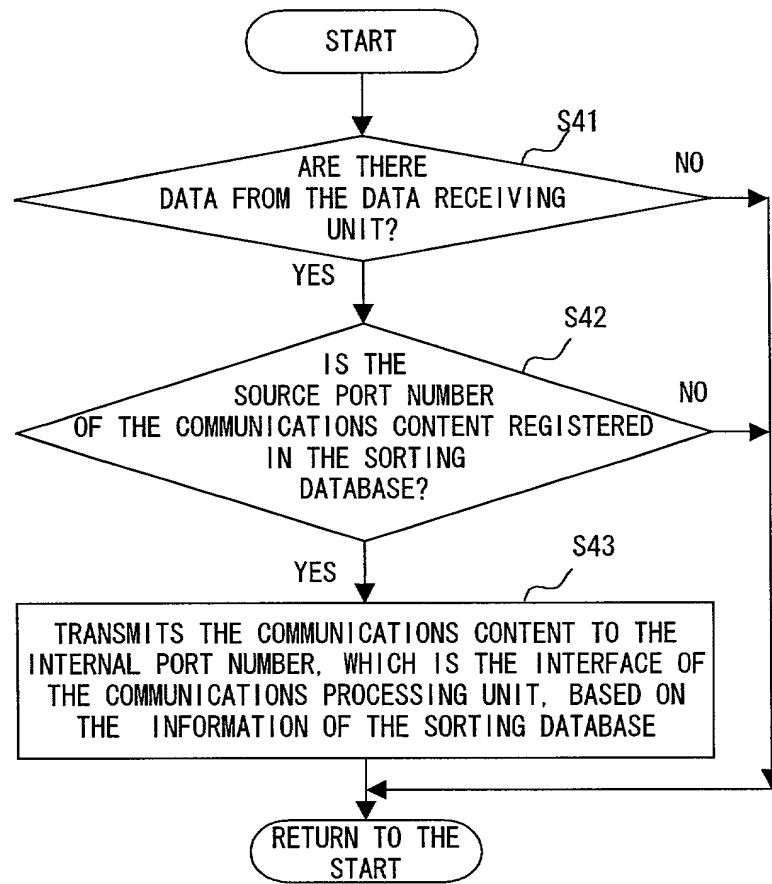


FIG. 16

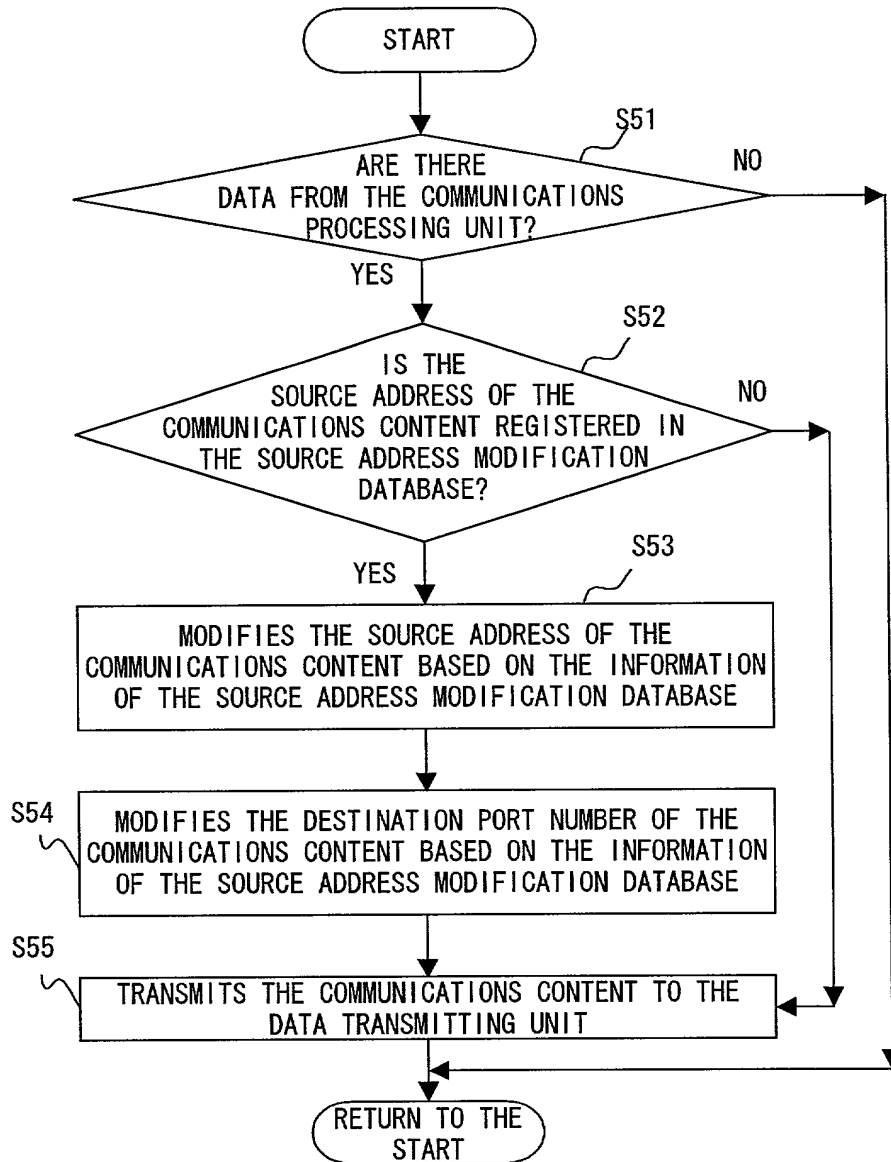


FIG. 17

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
A	C	80	100	ANYTHING

F I G. 1 8 A

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	C	80	10	ANYTHING

F I G. 1 8 B

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	B	10	80	ANYTHING

F I G. 1 8 C

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	A	100	80	ANYTHING

F I G. 1 8 D

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
A	C	80	90	ANYTHING

FIG. 19A

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	C	80	20	ANYTHING

FIG. 19B

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	B	20	80	ANYTHING

FIG. 19C

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	A	90	80	ANYTHING

FIG. 19D

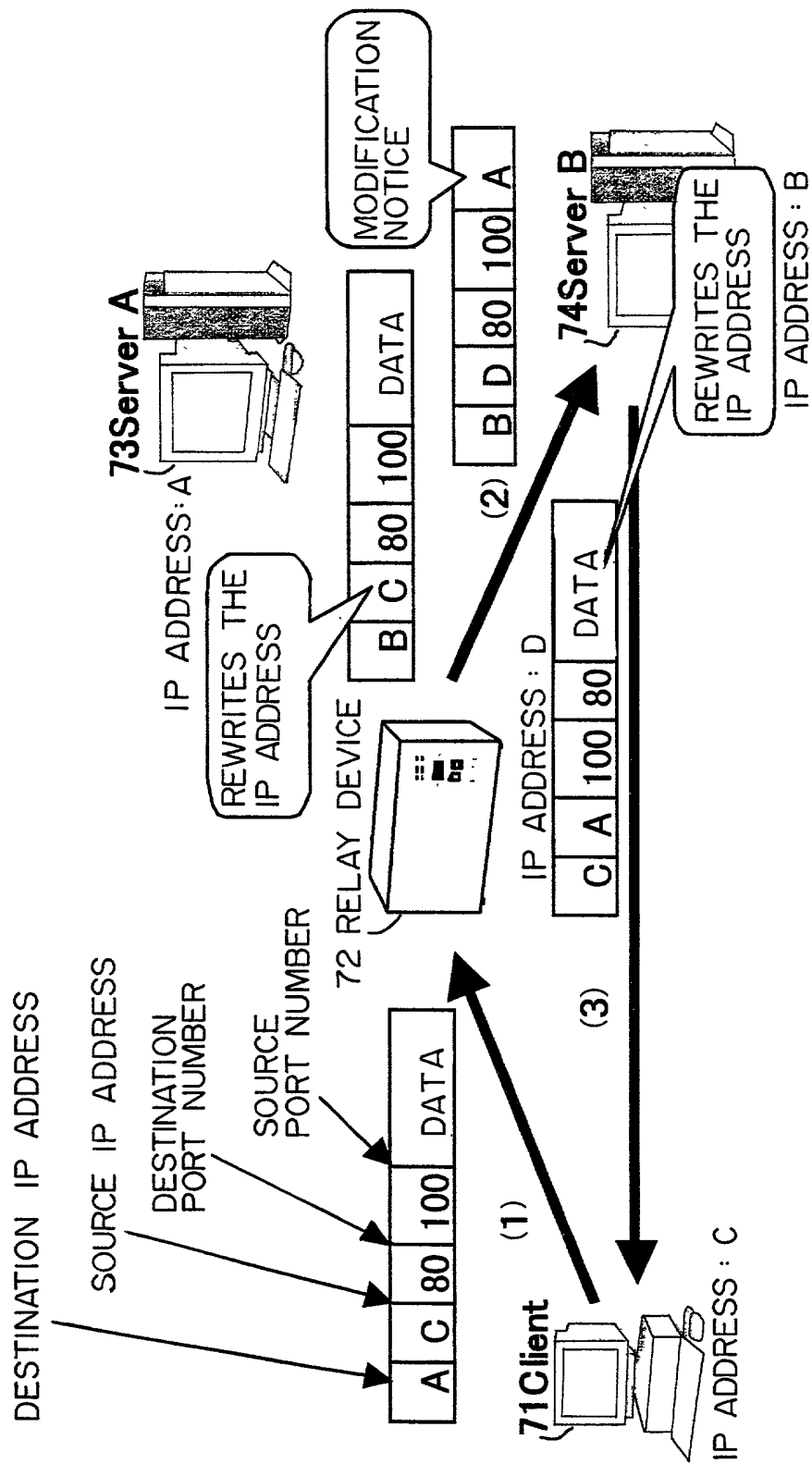


FIG. 20

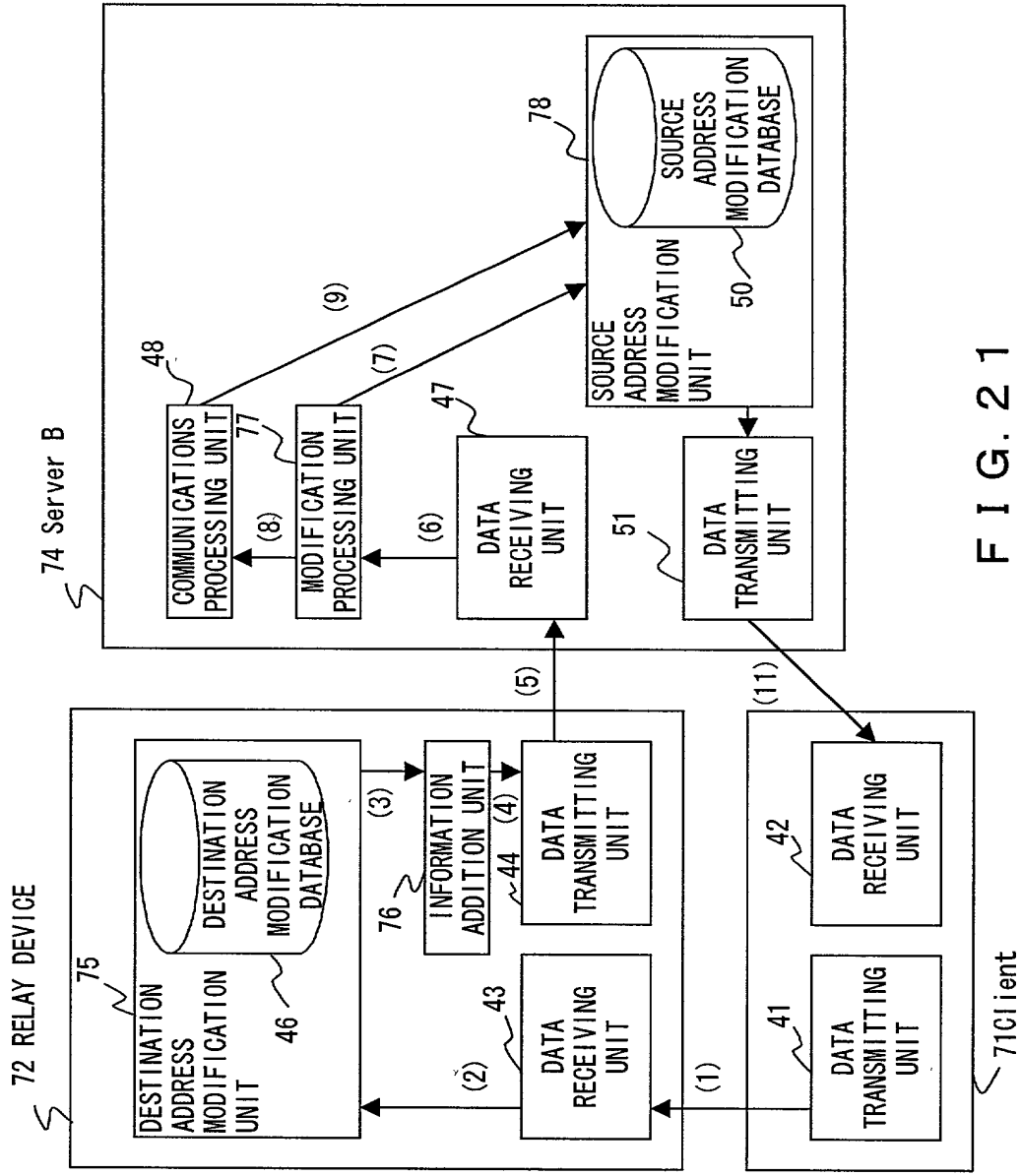


FIG. 21

DESTINATION ADDRESS
MODIFICATION DATABASE 46

	DESTINATION ADDRESS BEFORE MODIFICATION	DESTINATION ADDRESS AFTER MODIFICATION
IP ADDRESS	A	B

F I G. 2 2 A

SOURCE ADDRESS MODIFICATION
DATABASE 50

	SOURCE ADDRESS BEFORE MODIFICATION	SOURCE ADDRESS AFTER MODIFICATION
IP ADDRESS	B	

F I G. 2 2 B

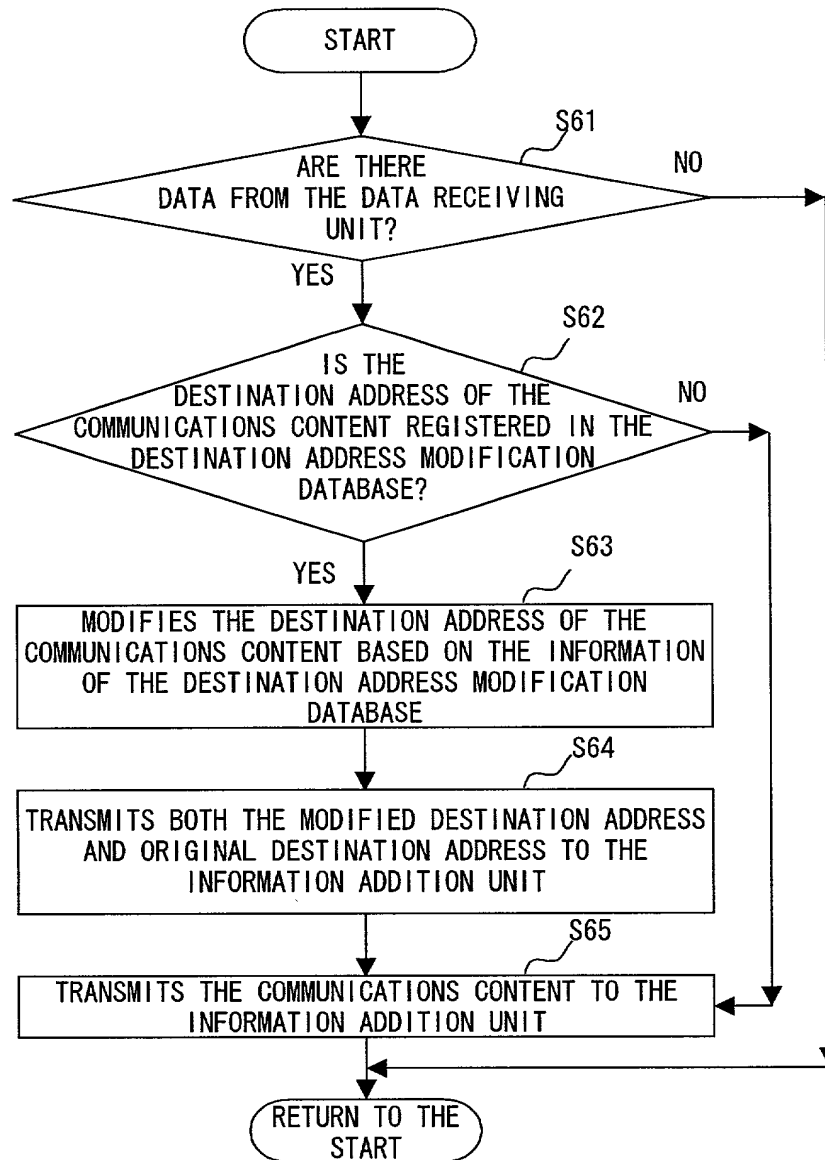


FIG. 23

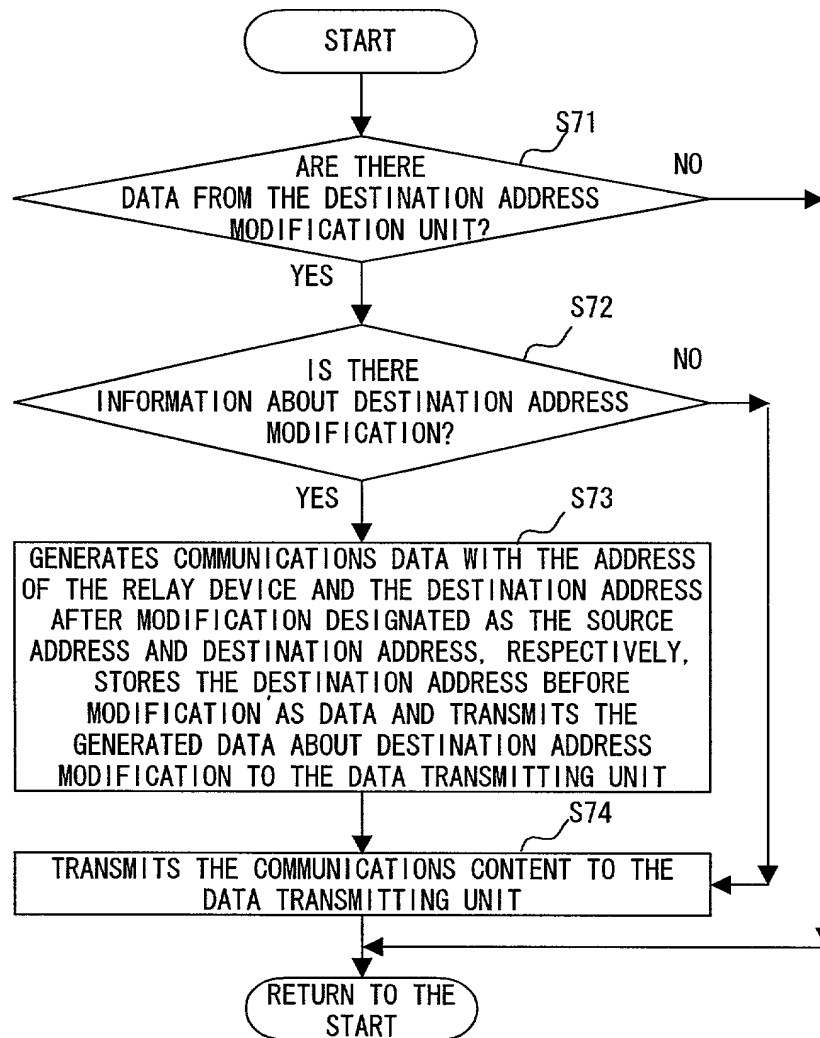


FIG. 24

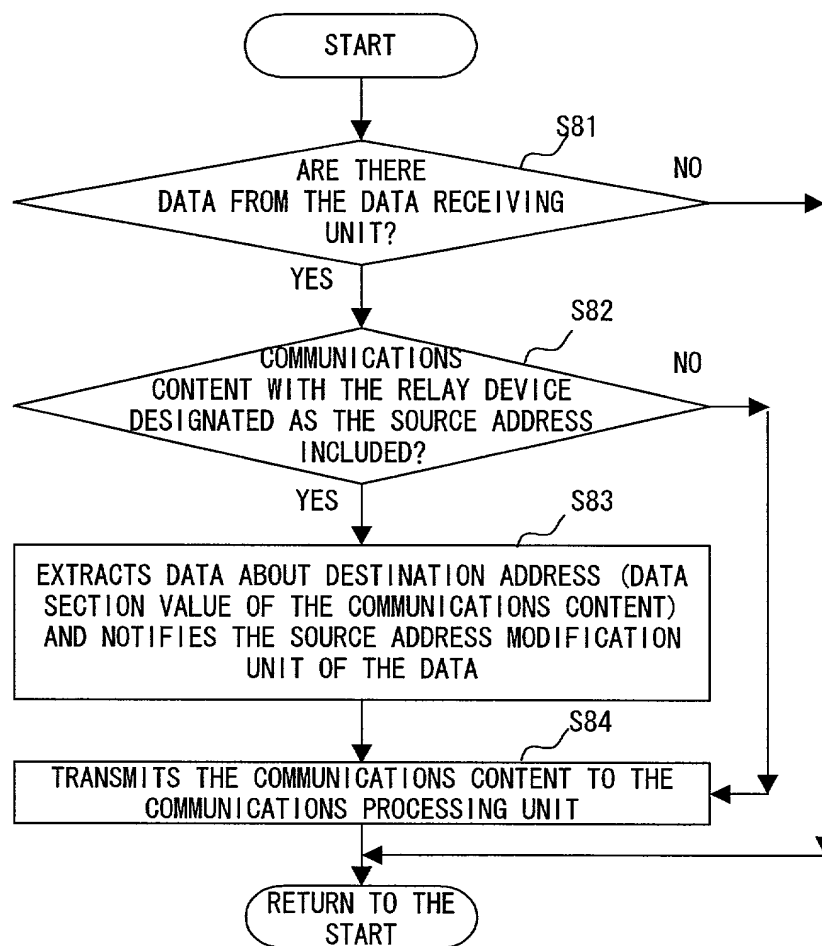


FIG. 25

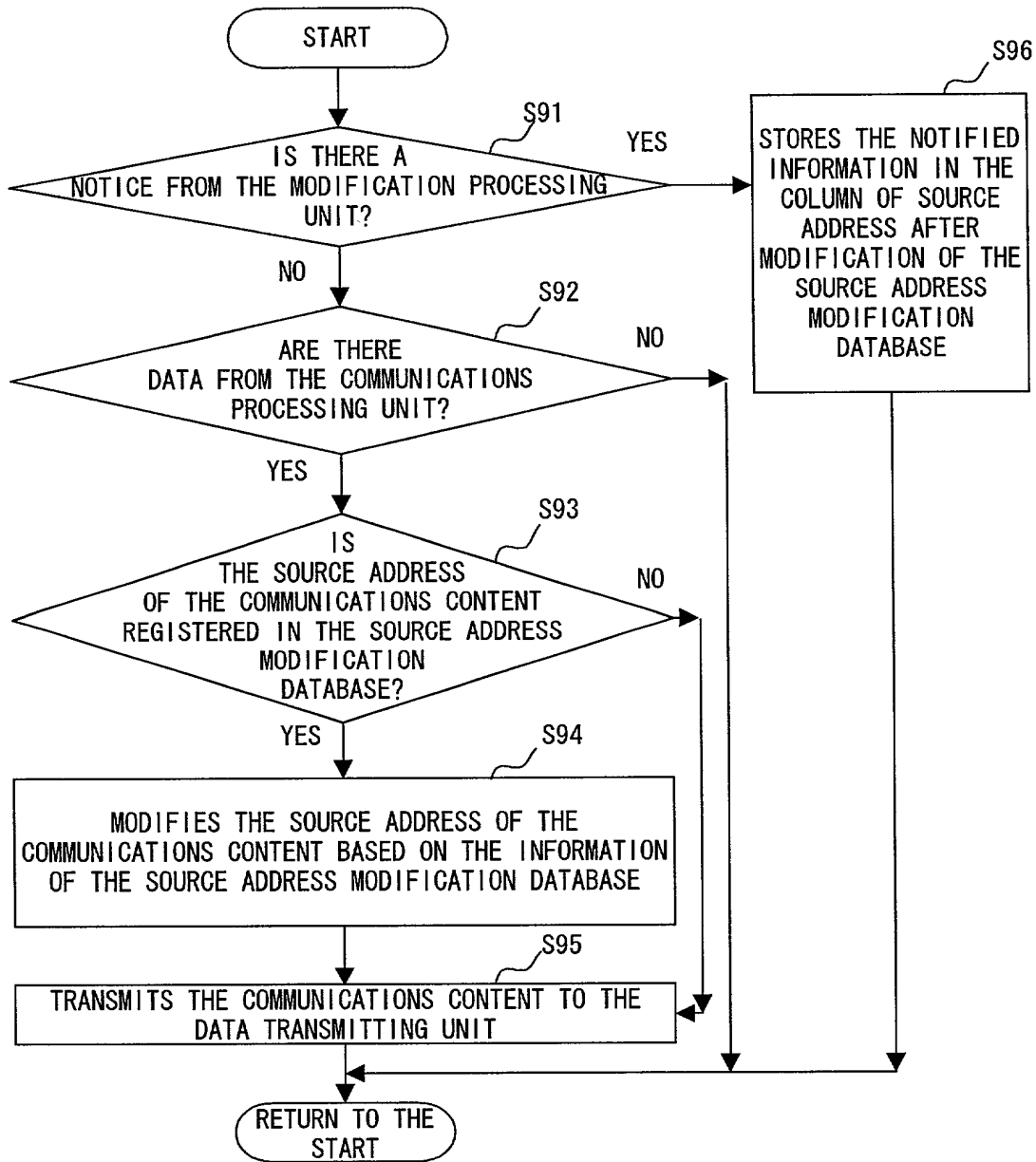


FIG. 26

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
A	C	80	100	ANYTHING

FIG. 27A

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	D	80	100	A

FIG. 27B

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	C	80	100	ANYTHING

FIG. 27C

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	B	100	80	ANYTHING

FIG. 27D

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	A	100	80	ANYTHING

FIG. 27E

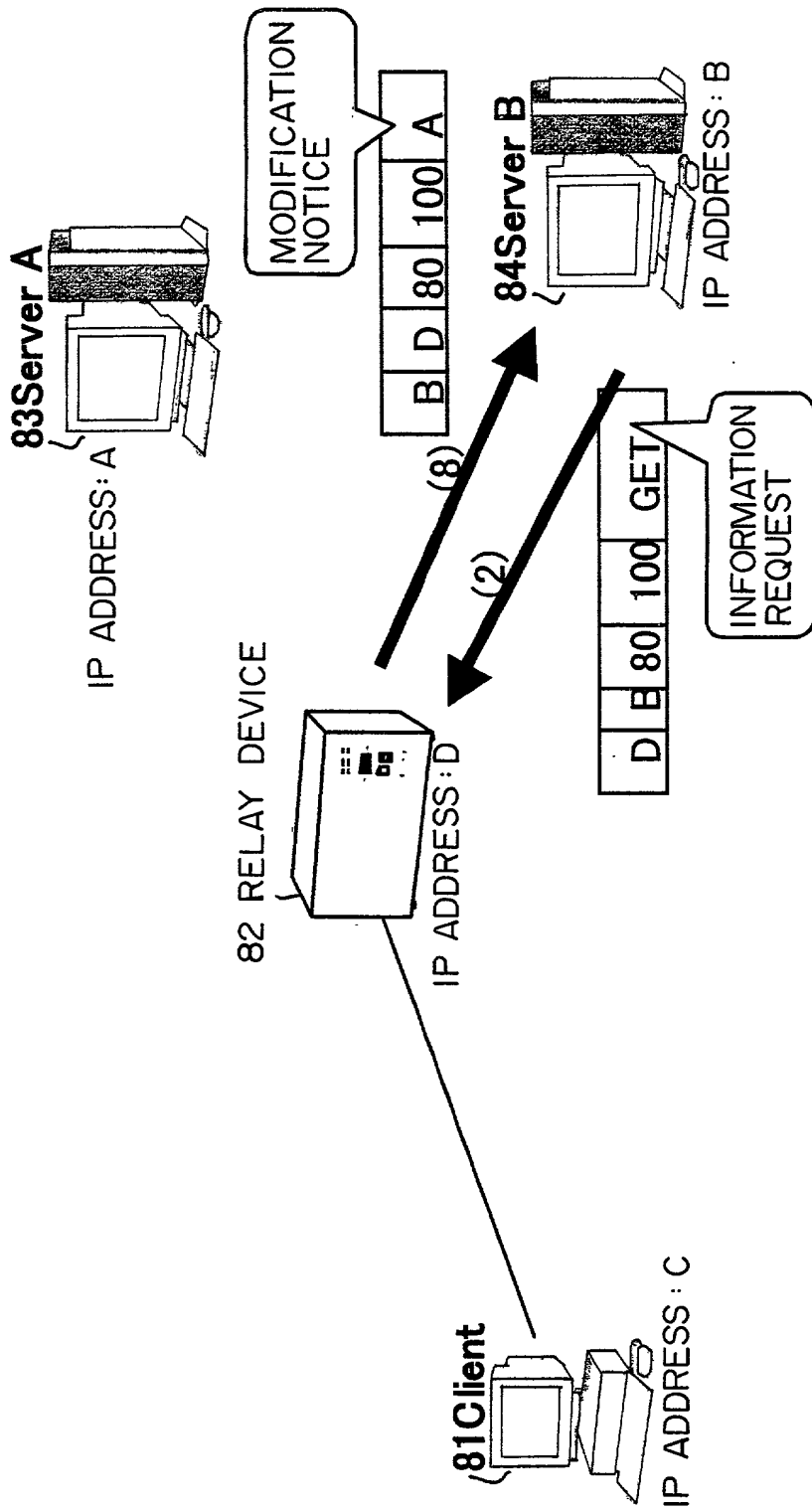


FIG. 28

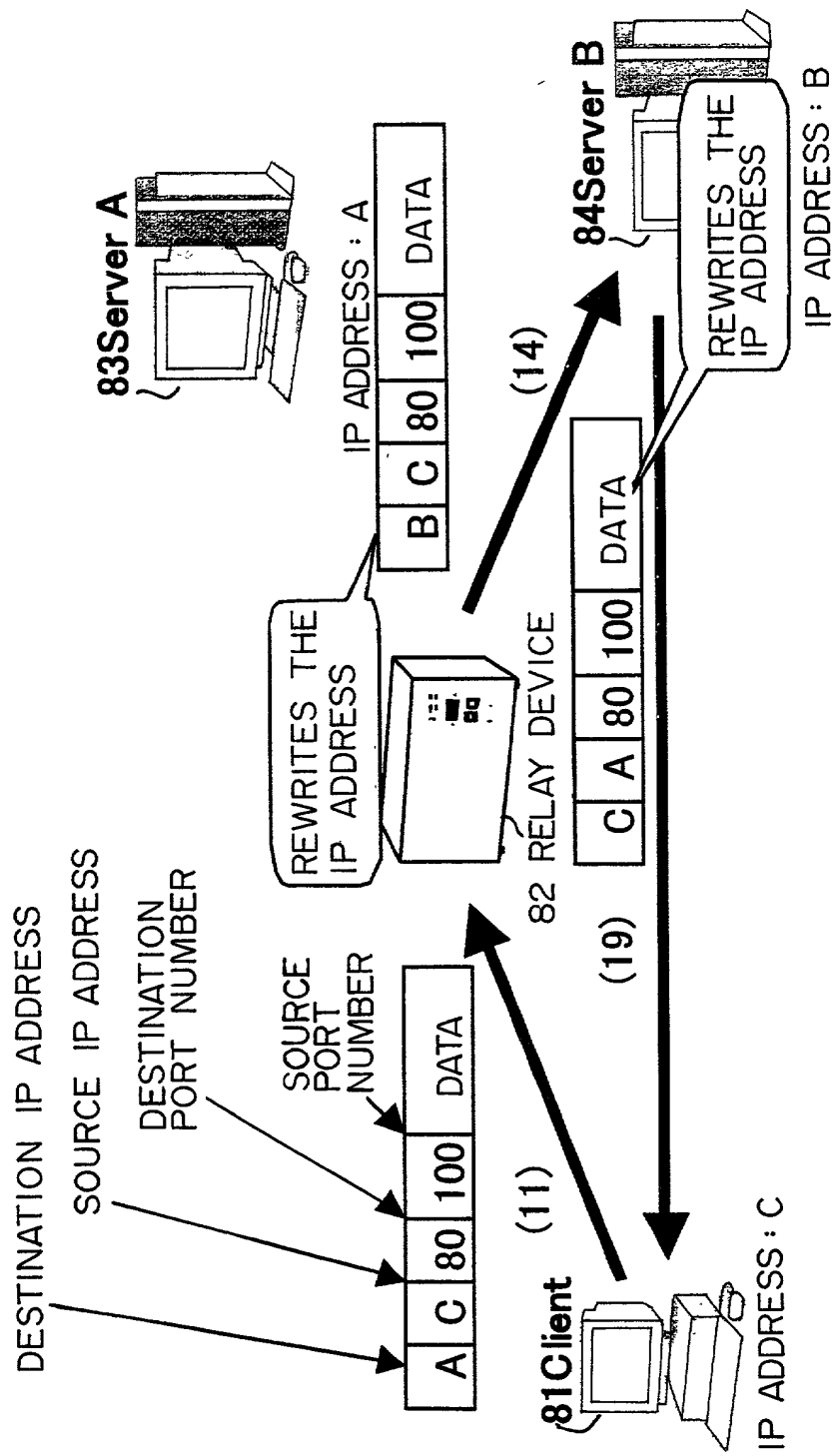


FIG. 29

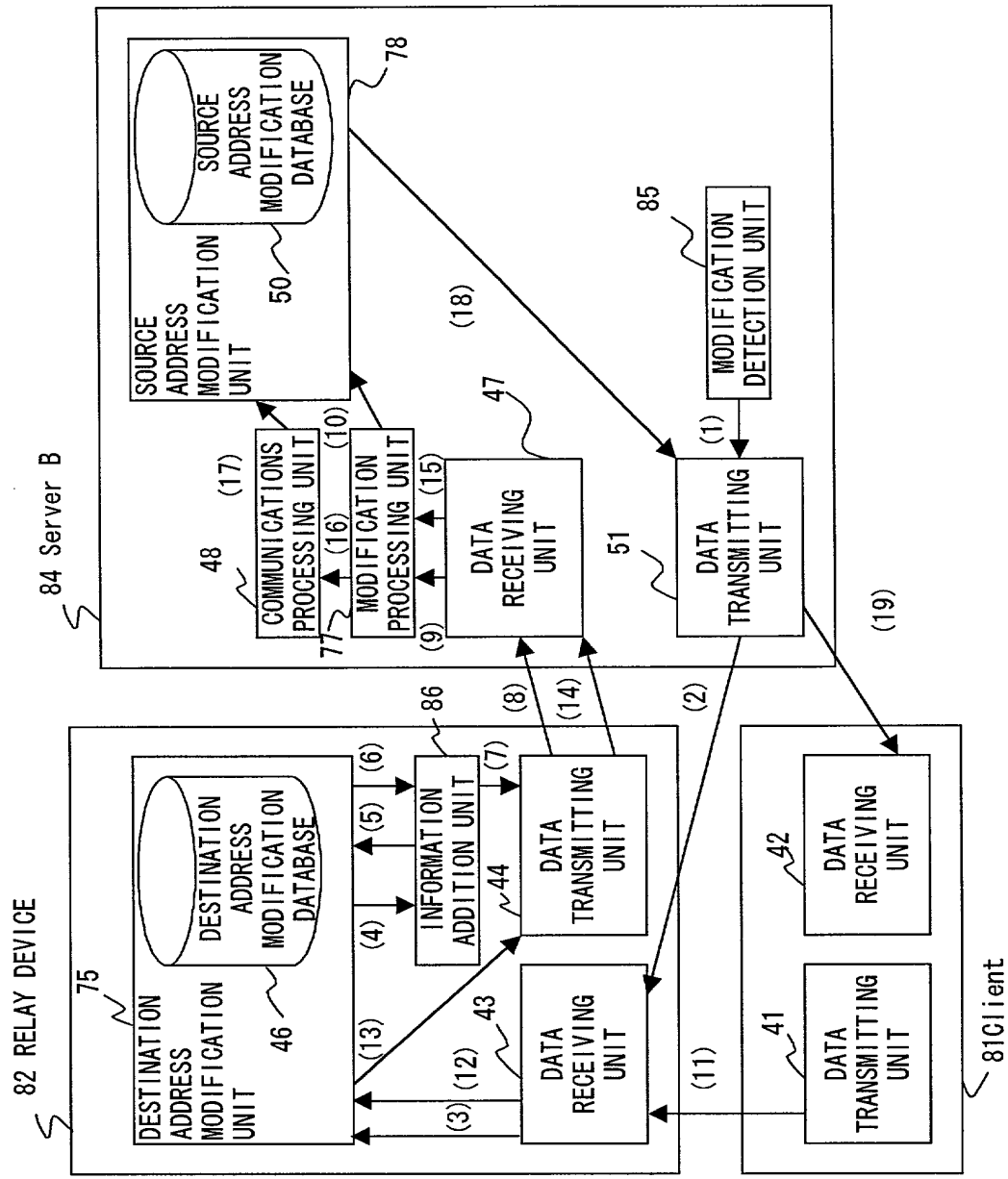


FIG. 30

DESTINATION ADDRESS
MODIFICATION DATABASE 46

	DESTINATION ADDRESS BEFORE MODIFICATION	DESTINATION ADDRESS AFTER MODIFICATION
IP ADDRESS	A	B

F I G. 3 1 A

SOURCE ADDRESS MODIFICATION
DATABASE 50

	SOURCE ADDRESS BEFORE MODIFICATION	SOURCE ADDRESS AFTER MODIFICATION
IP ADDRESS	B	

F I G. 3 1 B

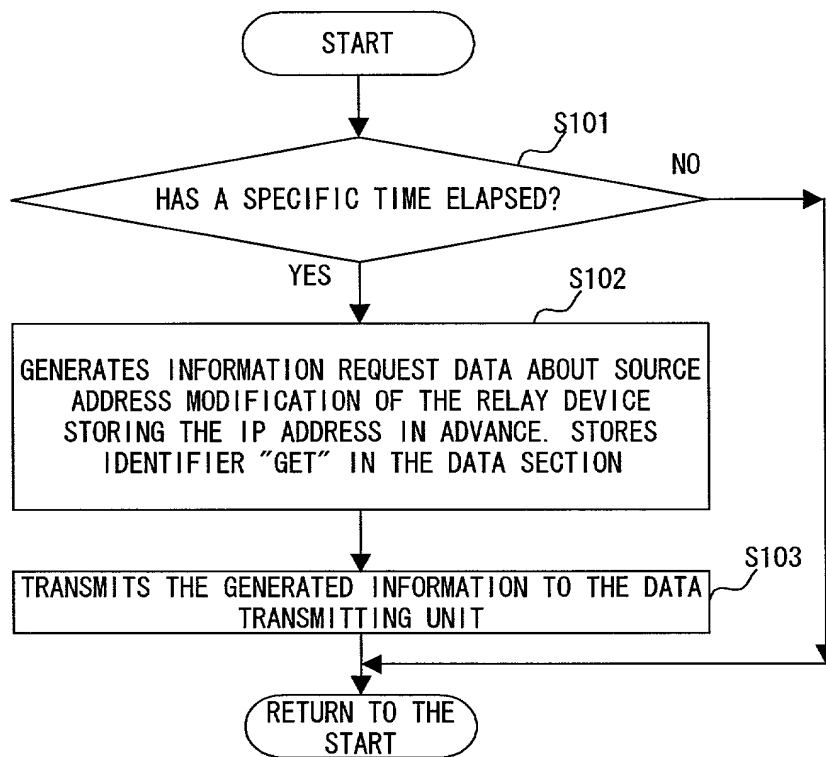


FIG. 32

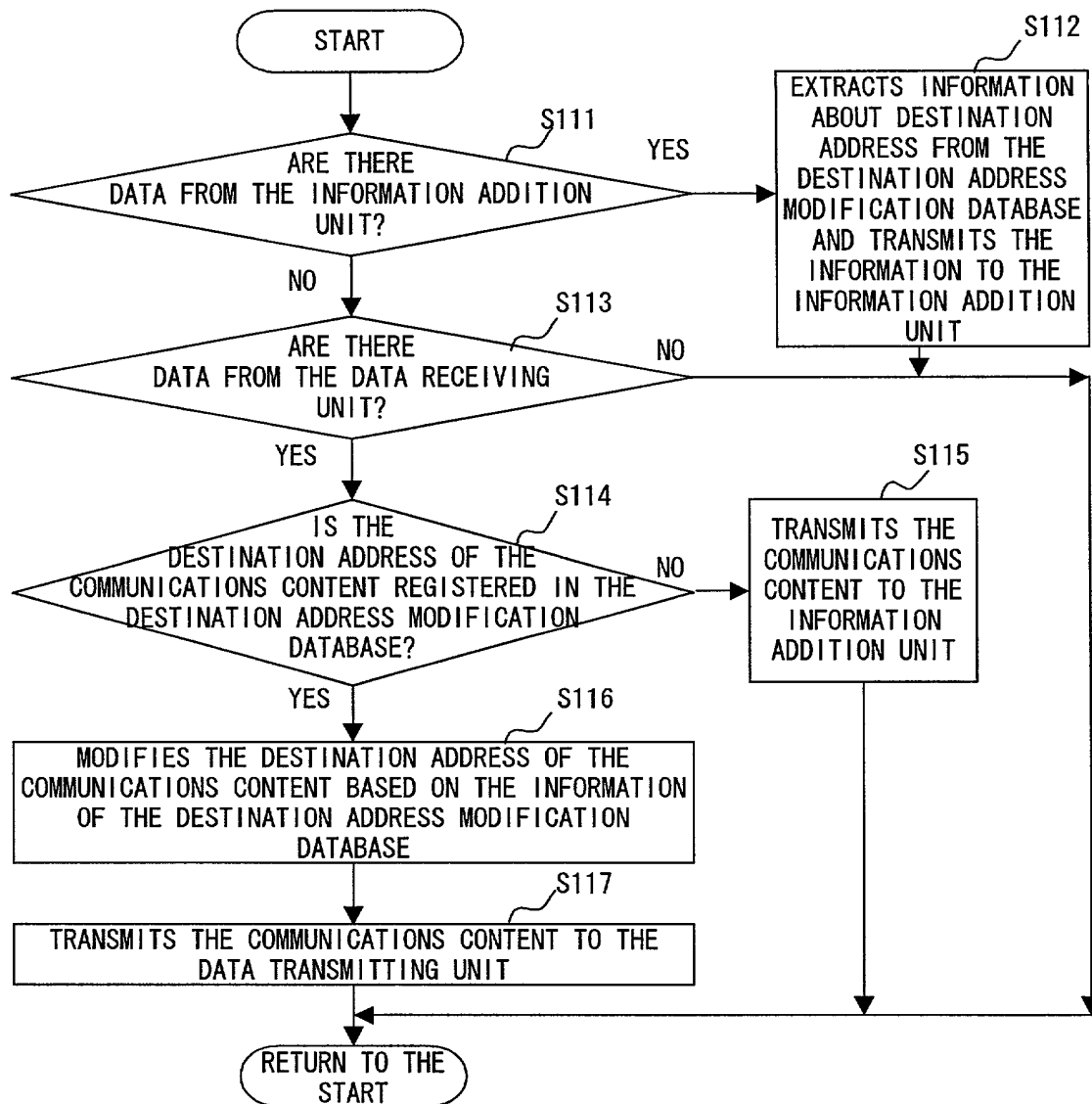


FIG. 33

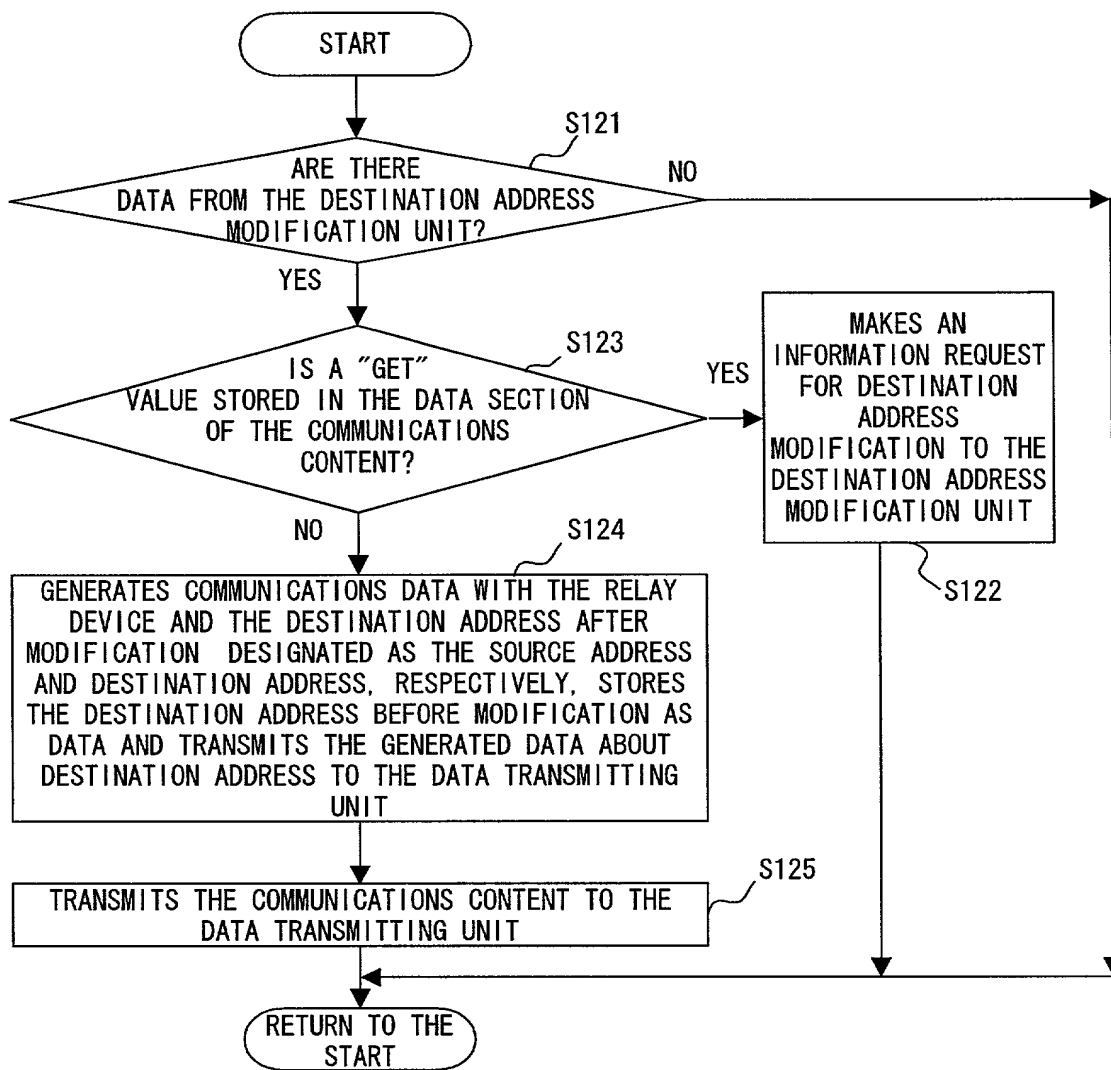


FIG. 34

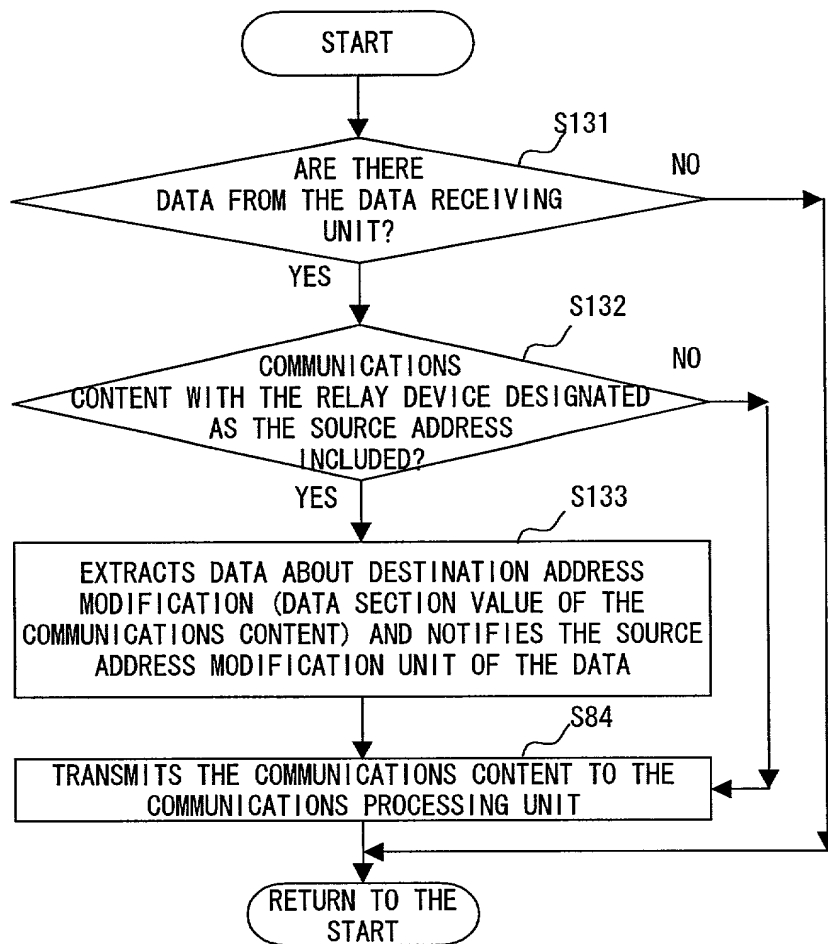


FIG. 35

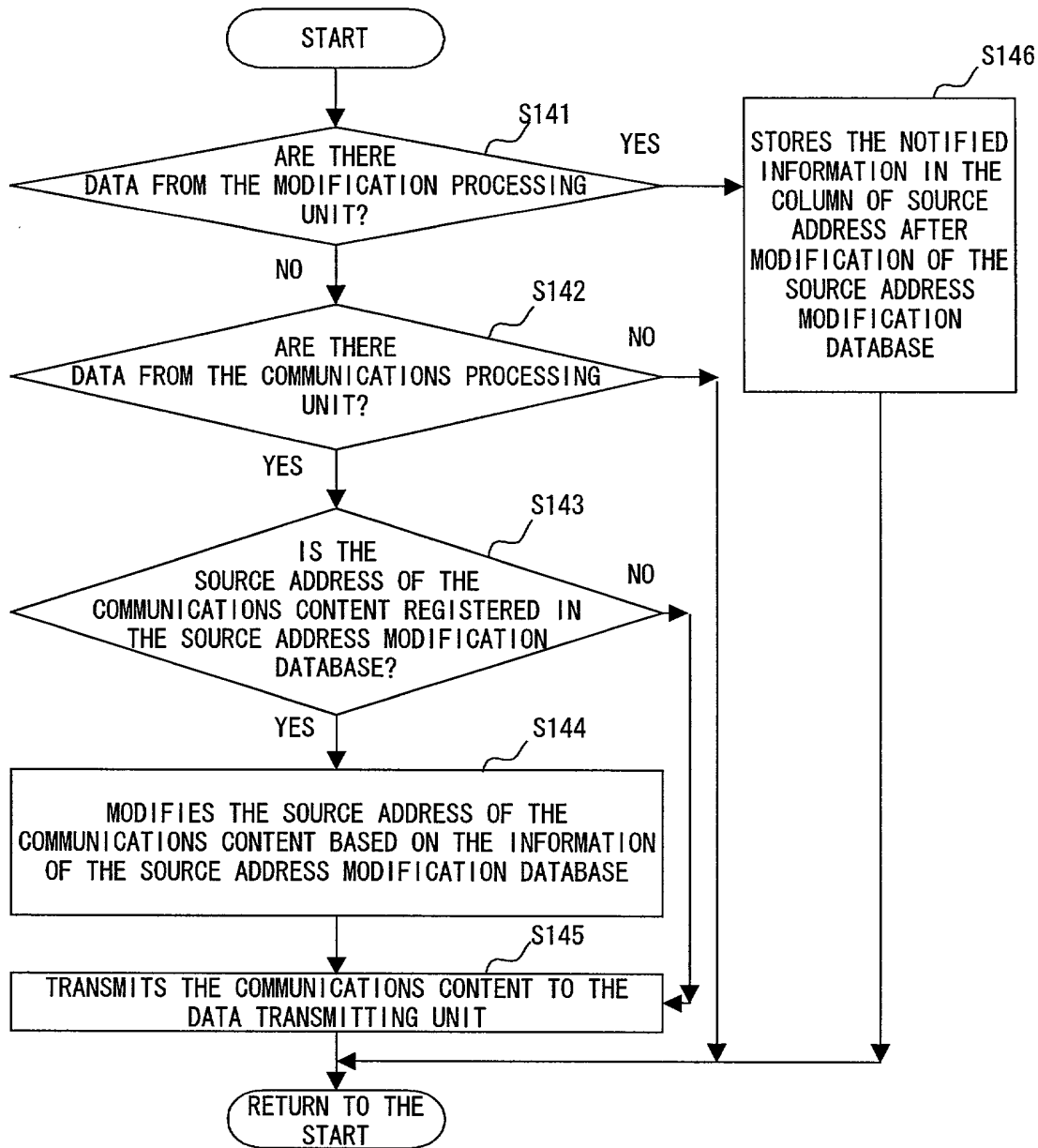


FIG. 36

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
D	B	80	100	GET

FIG. 37 A

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	D	80	100	A

FIG. 37 B

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
A	C	80	100	ANYTHING

FIG. 37 C

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
B	C	80	100	ANYTHING

F I G. 3 8 A

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	B	100	80	ANYTHING

F I G. 3 8 B

DESTINATION IP ADDRESS	SOURCE IP ADDRESS	DESTINATION PORT NUMBER	SOURCE PORT NUMBER	DATA
C	A	100	80	ANYTHING

F I G. 3 8 C

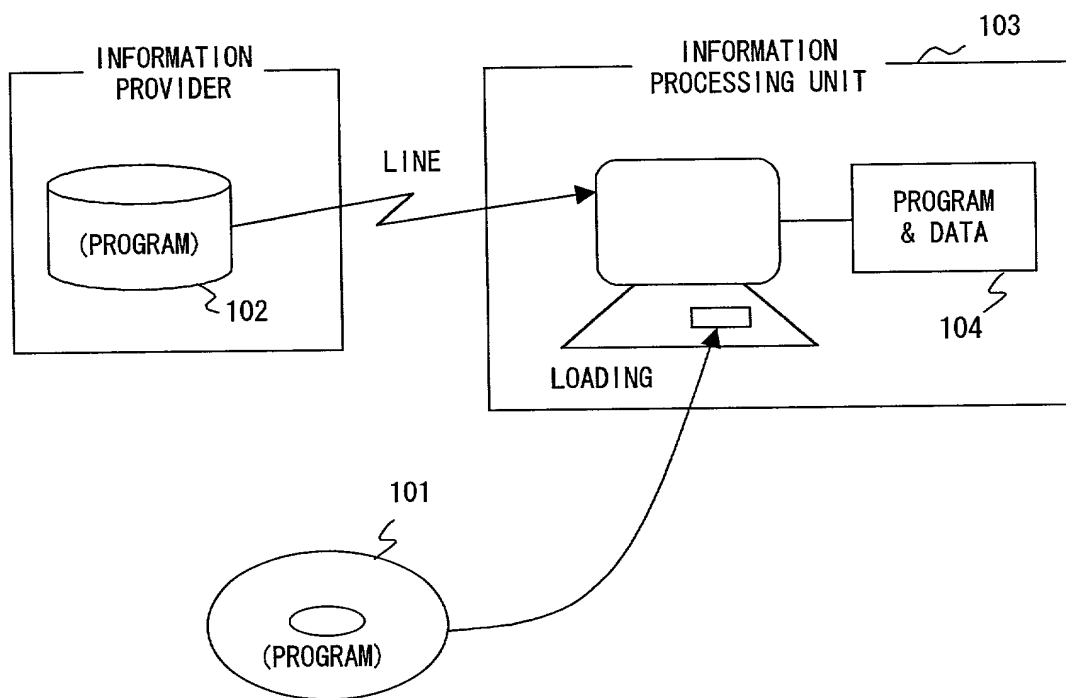


FIG. 39